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IIYAMA VISION MASTER PRO 514 HM204DT A USER MANUAL

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iiyama

Vision Master™ Pro514

HM204DT A

USER MANUAL

ENGLISH

DEUTSCH

FRANCAIS

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energy

Thank you very much for choosing the iiyama Vision Master color monitor.
We recommend that you take a few minutes to read carefully through this brief but comprehensive manual before installing and switching on the monitor. Please keep this manual in a safe place for your future reference.

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TCO Development

ENGLISH

Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- Energy-saving mode after a certain time – beneficial both for the user and the environment
- Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 001
- Restrictions on
  - o chlorinated and brominated flame retardants and polymers
  - o heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit

www.tcodevelopment.com

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FCC DECLARATION OF CONFORMITY

Model Number:	HM204DT A
Trade Name:	iiyama
Responsible Party:	IIYAMA North America, Inc.
Address:	65 West Street Road, Suite 101B, Warminster, PA18974 U.S.A.
Telephone number:	215-682-9050

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This equipment may not cause harmful interference, and (2) this equipment must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If you determine the equipment does cause harmful interference to radio or television reception (this may be determined by monitoring the interference while turning the equipment off and on), you are encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

To meet the FCC requirements, the specified signal cables below should be used.

Signal Cable MB38 (Enclosed): 242Z013-01
Signal Cable MB31 (Optional): 242Z017-01

CAUTION Changes or modifications not expressly approved by iiyama could void the users authority to operate the equipment under FCC compliance regulations.

CANADIAN DEPARTMENT OF COMMUNICATIONS COMPLIANCE STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulation of the Canadian department of communications.

CE MARKING DECLARATION OF CONFORMITY

This Color Data Monitor complies with the requirements of the EC Directive 89/336/EEC “EMC Directive” and 73/23/EEC “Low Voltage Directive” as amended by Directive 93/68/EEC.
The electro-magnetic susceptibility has been chosen at a level that gives correct operation in residential areas, business and light industrial premises and small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterized by their connection to the public low voltage power supply system.

- We reserve the right to change specifications without notice.
- All trademarks used in this user manual are the property of their respective owners.
- As an ENERGY STAR® Partner, iiyama has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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FOR YOUR SAFETY

SAFETY PRECAUTIONS

WARNING

STOP OPERATING THE MONITOR WHEN YOU SENSE TROUBLE

If you notice any abnormal phenomena such as smoke, strange sounds or fumes, unplug the monitor and contact your dealer or iiyama service center immediately. Further use may be dangerous and can cause fire or electric shock.

NEVER REMOVE THE CABINET

High voltage circuits are inside the monitor. Removing the cabinet may expose you to the danger of fire or electric shock.

DO NOT PUT ANY OBJECT INTO THE MONITOR

Do not put any solid objects or liquids such as water into the monitor. In case of an accident, unplug your monitor immediately and contact your dealer or iiyama service center. Using the monitor with any object inside may cause fire, electric shock or damage.

INSTALL THE MONITOR ON A FLAT, STABLE SURFACE

The monitor may cause an injury if it falls or is dropped.

DO NOT USE THE MONITOR NEAR WATER

Do not use the monitor where water may be splashed or spilt on the monitor as it may cause fire or electric shock.

OPERATE UNDER THE SPECIFIED POWER SUPPLY

Be sure to operate the monitor only with the specified power supply. Use of an incorrect voltage will cause malfunction and may cause fire or electric shock.

PROTECT THE CABLES

Do not pull or bend the power cable and signal cable. Do not place the monitor or any other heavy objects on the cables. If damaged, the cables may cause fire or electric shock.

ADVERSE WEATHER CONDITIONS

It is advisable not to operate the monitor during a heavy thunder storm as the continual breaks in power may cause malfunction. It is also advised not to touch the plug in these circumstances as it may cause electric shock.

CAUTION

INSTALLATION LOCATION

Do not install the monitor where sudden temperature changes may occur, or in humid, or dusty or smoky areas as it may cause fire, electric shock or damage. You should also avoid areas where the sun shines directly on the monitor.

DO NOT PLACE THE MONITOR IN A HAZARDOUS POSITION

The monitor may topple and cause injury if not suitably located. Please also ensure that you do not place any heavy objects on the monitor, and that all cables are routed such that children may not pull the cables and possibly cause injury.

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CAUTION

MAINTAIN GOOD VENTILATION

Ventilation slots are provided to keep the monitor from overheating. Covering the slots may cause fire. To allow adequate air circulation, place the monitor at least 10 cm (or 4 inches) from any walls. Do not remove the tilt stand when operating the monitor. Ventilation slots on the cabinet bottom will be blocked and the monitor may overheat if the stand is removed. This may cause fire or damage. Operating the monitor on its back, side, upside down or on a carpet or any other soft material may also cause damage.

DISCONNECT THE CABLES WHEN YOU MOVE THE MONITOR

When you move the monitor, turn off the power switch, unplug the monitor and be sure the signal cables are disconnected. If you do not disconnect them, it may cause fire or electric shock.
It is recommended that two people are used when moving the monitor.

UNPLUG THE MONITOR

The power cable is the disconnect device. If the monitor is not in use for a long period of time it is recommended that the power cable it is left unplugged to avoid accidents.

HOLD THE PLUG WHEN DISCONNECTING

To disconnect the power cable or signal cable, always pull it by the plug. Never pull on the cable itself as this may cause fire or electric shock.

DO NOT TOUCH THE PLUG WITH WET HANDS

Pulling or inserting the plug with wet hands may cause electric shock.

DO NOT PUT FLOPPY DISKS NEAR THE MONITOR

Magnetic data recordings such as on a floppy disk may disappear if they are placed on or near the monitor as the degauss circuit causes a strong momentary magnetic field.

WHEN YOU INSTALL THE MONITOR ON YOUR COMPUTER

Be sure the computer is strong enough to hold the weight of the monitor, otherwise, you may damage your computer.

OTHERS

ERGONOMIC RECOMMENDATIONS

To eliminate eye fatigue, do not operate the monitor against a bright background or in a dark room. For optimal viewing comfort, the monitor should be just below eye level and 40-60 cm (16-24 inches) away from your eyes. When using the monitor over a prolonged time, a ten minute break every hour is recommended as looking at the screen continuously can cause eye strain.

MAGNETIC FIELD INFLUENCE

Place the monitor away from TV, speaker systems or any other source of strong magnetic fields. The monitor may be noisy or the screen's output may be distorted as a result of interference from other appliances.

INTENDED APPLICATION

The monitor can be also used in a medical environment to display video signal from computer or other system. The monitor is not suitable for use in areas that patients are cared for.

UNSUITABLE LOCATION FOR USING THE MONITOR

The monitor is not suitable for use in the presence of a FLAMMABLE ANAESTHETIC MIXTURE WITH AIR or WITH OXYGEN OR NITROUS OXIDE.

The monitor is not suitable for use in areas that patients are cared for. This encloses a space within the room 1.83 m (6 feet) beyond the perimeter of the bed (examination table, dental chair, treatment booth, and the like) in its intended location, and extending vertically 2.29 m (7-1/2 feet) above the floor.

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OTHERS

ATTENTION FOR USING THE OPQ FUNCTION (=Optimize Picture Quality)

Due to the nature of the Diamondtron U3-CRT, misconvergence, misalignment of the aperture grille, picture shaking or burn-in of phosphors may happen when displaying a high-white picture for a long time while the OPQ function is active.
Turn OFF the OPQ function when displaying anything other than DVD or other moving pictures.

OPTIMUM PICTURE FOR THE OPQ FUNCTION

1. Text1 mode
   - ■ Word processor and spreadsheet
   - ■ Text and a like
2. Picture mode
   - ■ Still picture
3. Movie mode
   - ■ Moving picture (DVD / TV)
4. Text2 mode
   - ■ Word processor and spreadsheet
   - ■ Text and a like
   - * With Text2 mode, the outline of character is emphasized more than Text1 mode. In case that the characters get blurred with Text1 mode, select Text2 mode.

NOTE When you select the Picture or Movie mode within the OPQ function, and use a word processor or display text and a like then your eyes maybe subject to fatigue. This will be because the right side of characters will appear stretched, bright and slightly out of focus. This is normal because the mode you have selected is designed for still or moving pictures. To reduce fatigue use the Text mode or take a short break.

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CUSTOMER SERVICE

NOTE

■ If you have to return your unit for service and the original packaging has been discarded, please contact your dealer or iiyama service center for advice or replacement packaging.

CLEANING

WARNING

■ If you drop any materials or liquids such as water into the monitor when cleaning, unplug the power cable immediately and contact your dealer or iiyama service center.

CAUTION

■ For safety reasons, turn off the power switch and unplug the monitor before you clean it.

NOTE

■ The CRT screen is protected by an anti-reflection & anti-static coating. Do not scratch or rub the screen with a hard object, as this could damage the coating.

■ Never use any of the following strong solvents. These will damage the cabinet and the CRT.

Thinner	Spray-type cleaner
Benzine	Wax
Abrasive cleaner	Acid or Alkaline solvent

CABINET Stains can be removed with a cloth lightly moistened with a mild detergent solvent. Then wipe the cabinet with a soft dry cloth.

CRT Wipe the CRT with a soft dry cloth. Tough stains can be removed with diluted ethanol (15% or less), neutral glass cleaner or neutral detergent solvent.

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BEFORE YOU OPERATE THE MONITOR

The stand functions as a hub when connected to a USB compliant computer and USB peripherals. However, with older operating systems and/or BIOS settings in your computer, the USB hub may not operate. In this case, please contact your computer dealer first for advice.

FEATURES

- High Quality & High Brightness (OPQ ON: 200cd/m²)
- OPQ Function for Digital Camera Edit & DVD Playback
- Supports sRGB for Clear Publications & Photography
- Separate Color Adjustment of Red / Blue for Fine Picture Quality
- Original Gamma Function for Multi-Quality Picture
- Supports "Flicker Free" Refresh Rates up to 87Hz at 2048×1536
- Plug & Play VESA DDC2B Compliant, Windows® 95/98/2000/Me/XP Compliant
- Automatic Landing System to cancel Magnetic Field Effect
- Ergonomic Design: TCO '03 and MPR Ⅲ Approved
- Power Management (ENERGY STAR® and VESA DPMS Compliant)
- Space Saving, Compact Case Design
- USB Hub Function
- Stereo Speakers with High Quality Sound

ACCESSORIES

The following accessories should be included in the Vision Master packaging. Please ensure that all of them are enclosed.

- Power Cable*
- Signal Cable MB38 (For D-Sub connection)
- USB Cable SU44
- Audio Cable AD24 (RCA to mini jack)
- User Manual

CAUTION * The rating of the Power Cable enclosed in 120V area is 10A/125V. If you are using a power supply higher than this rating, then a power cable with a rating of 10A/250V must be used.
However, all guarantees and warranties are void for any problems or damage caused by a power cable not supplied by iiyama.

FOR WINDOWS 95/98/2000/ME/XP USERS

Windows 95/98/2000/Me/XP Monitor Information File for iiyama monitors may be obtained via the Internet, using the address: http://www.iiyama.com (U.S.A.)
http://www.iiyama.co.uk (U.K.)

NOTE
- For additional information on how to download the driver for your monitor, please access one of the internet sites noted above.
- Monitor Drivers are not required in most cases for Macintosh or Unix operating systems. For further information, please contact your computer dealer first for advice.

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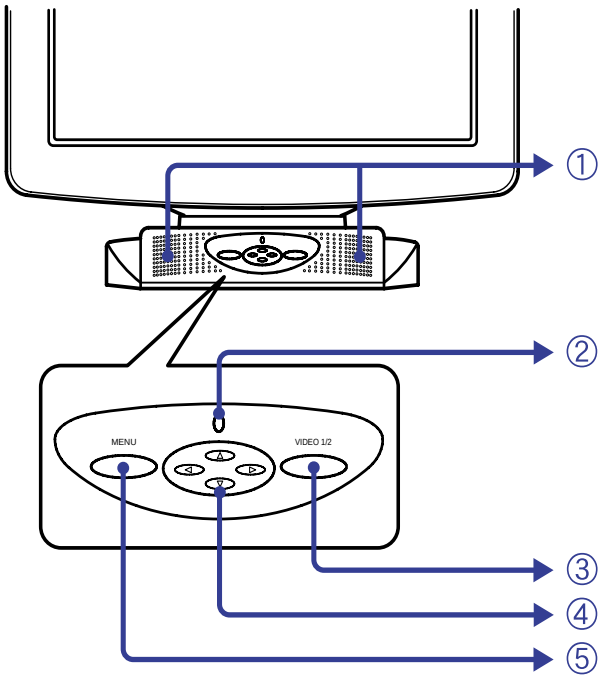
LOCATION OF CONTROLS

Front



① Speakers
The volume control is performed with the On Screen Display. Press the ▶ / ◀ Buttons and then the Menu Button continuously when the Menu is not displayed.

② Power Indicator

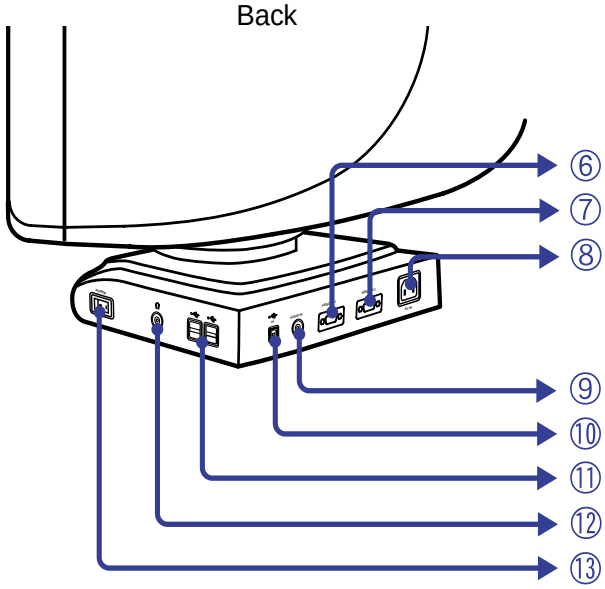
③ Input Select Button (VIDEO 1/2)
Select either VIDEO IN 1 or 2 for the signal input when both of the signal inputs are connected to a signal source. Switch VIDEO IN 1 and 2 whenever pressing Input Select Button for 3-4 seconds.

NOTE When only one of the two signal inputs is connected to the signal source, the one connected is automatically selected. Input Select Button is not available if there is no signal input from the selected connector or during the power management mode.

④ Four Directional Button ▶ / ◀ / ▲ / ▼

⑤ Menu Button (MENU)

Back



⑥ D-sub mini 15pin Connector (VIDEO IN 1)

⑦ D-sub mini 15pin Connector (VIDEO IN 2)

⑧ AC Connector (AC IN)

⑨ Audio Connector (AUDIO IN)

⑩ USB-UP
Connect with a USB compliant computer by the USB Cable attached to the monitor.

⑪ USB-DOWN
Connect any cables from USB compliant peripherals such as mouse, keyboard, etc.

⑫ Headphone Connector

⑬ Switch
(| : On Symbol, ⏻: Stand-by Symbol)

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CONNECTING YOUR MONITOR

① Ensure that both the computer and the monitor are switched off.

② Connect the computer to the monitor with the signal cable. (See page 19 for CONNECTOR PIN ASSIGNMENT.)

③ Connect the monitor to the audio equipment with the Audio Cable when using the audio features.

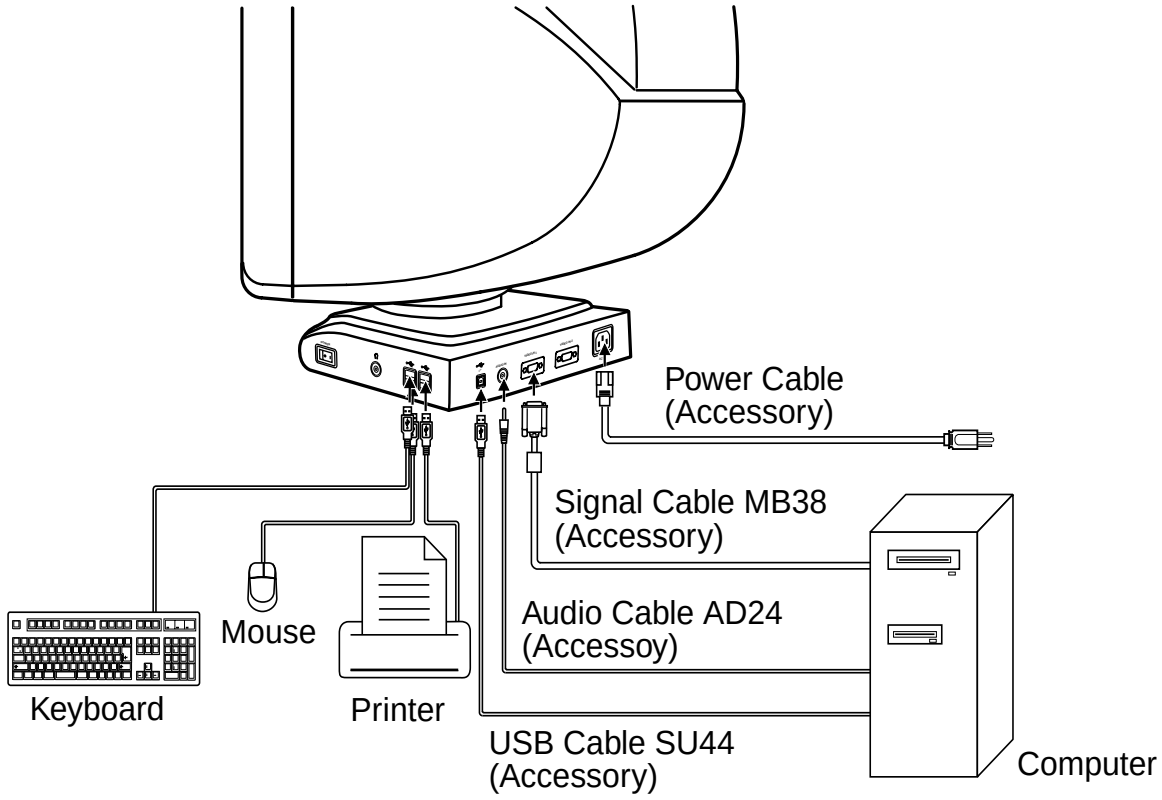
④ Connect the monitor to the USB compliant computer with the USB Cable when using the USB hub features.

⑤ Connect the Power Cable to the monitor first and then to the power supply.

NOTE

- The signal cables used for the connection vary by the type of computers you use. An incorrect connection may cause serious damage to both the monitor and the computer. The cable supplied with the monitor is for a standard 15 pin D-Sub connector. If a special cable is required please contact your local iiyama dealer or regional iiyama office.
- For connection to Macintosh computers, contact your local iiyama dealer or regional iiyama office for a suitable adaptor.
- Make sure you tighten the finger screws at each end of the signal cable.

[Example of Connection]



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OPERATING THE MONITOR

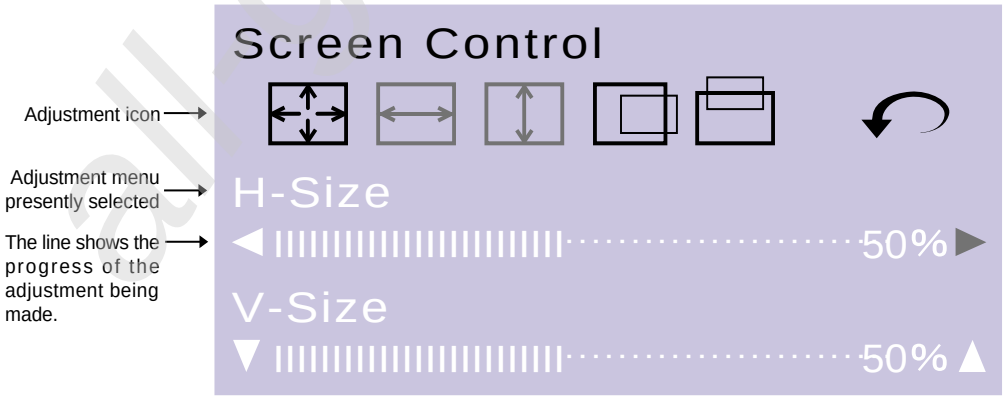
To create the best picture, your iiyama Vision Master has been preset at the factory with the signal timings listed on page 19 in PRESET MODES. If an incorrect picture appears during the operation, adjust the image by following the procedure shown below to get the desired picture.

After selecting an item in the Main Menu, the adjustments and settings are made in the Sub-Menu.

① Main Menu appears on the screen when you press the Menu Button.

② For example, to adjust the horizontal screen size, select (Screen Control) on the Main Menu by using the ▶ / ◀ Buttons. The Sub-Menu appears when you press the Menu Button.

③ Select (H-Size) on the Sub-Menu by using the ▶ / ◀ Buttons. An adjustment scale will turn white when you press the Menu Button. Use the ▶ / ◀ Buttons to adjust the horizontal screen size. The vertical screen size adjustment can be also made on this screen by using the ▲ / ▼ Buttons. See ADJUSTMENT MENU CONTENTS on next pages for further information.



NOTE

- The On Screen Display disappears in optional setting seconds after you stop pressing the buttons while performing an adjustment. (See page 13 for OSD Off Timer.)
- Adjustments for Size, Position, Pin-Cushion and Trapezoid are saved for each signal timing. Except for these adjustments, all other adjustments such as Color, Parallelogram, Convergence, Moire, and Landing have only one setting which applies to all signal timings.

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ADJUSTMENT MENU CONTENTS

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Volume Control: Press the ▶ / ◀ Buttons and then the Menu Button continuously when the Menu is not displayed.
- Contrast/Brightness: Press the ▶ / ◀ Buttons when the Menu is not displayed.
- OPQ: Press the ▲ / ▼ Buttons when the Menu is not displayed.

NOTE

■ SWITCHING CONTRAST/BRIGHTNESS AND VOLUME CONTROL
To switch between Contrast/Brightness and Volume Control, press the Menu Button within 2 seconds after pressing the Four Directional Button during the direct adjustments above.

■ The On Screen Display disappears approx. 3 seconds after you stop pressing the buttons while performing the direct adjustment, irrespective of OSD Off Timer setting. (See page 13 for OSD Off Timer.)

Main Menu	Sub-Menu	Problem / Option	Button to Press
	Volume Control **Direct**	Too soft Too loud	▶ ◀

NOTE Only available on Direct adjustment.

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Main Menu	Sub-Menu	Problem / Option	Button to Press
Color Control	Contrast **Direct**	Too dull Too intense	▶ ◀
	NOTE Input video signal level: The factory preset is 0.7Vp-p. To change to 1.0Vp-p, hold down the ◀ button until 1.0V appears on screen.		
	Brightness **Direct**	Too dark Too bright	▲ ▼
	COLOR Color Temp.	Reddish white Bluish white	▶ ◀
	NOTE Color temperature is adjustable sRGB and between approximately 10000K and 4500K. The factory preset is 9300K.		
	sRGB **Procedure** ■ To access the sRGB mode, select the Color Temp. function and select 10000K by pushing the ▶ button. Hold down the ▶ button & sRGB function will be activated. When this mode is activated the color temperature is approximately 6500K. ■ To deactivate the sRGB mode, push the ◀ button while the Color Temp. is selected.		
	NOTE ■ sRGB is an international standard which defines and unifies the difference of color appearance between equipment. ■ You can not adjust the Contrast, Brightness, Red, Blue, OPQ and Gamma Correction during sRGB mode because those settings are locked.		
	R Red	Too weak Too strong	▶ ◀
	B Blue	Too weak Too strong	▲ ▼
	NOTE ■ Red and Blue can be adjusted for each color temperature. ■ The adjustment data is reset to the factory-preset data when the color temperature is changed after the adjustment.		
	Return to Menu	Return to Main Menu.	

NOTE See page 9 for Direct adjustment.

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Main Menu	Sub-Menu	Problem / Option	Button to Press
Screen Control	Zoom	Too small Too large	▶ ◀
	H-Size	Too small Too large	▶ ◀
	V-Size	Too small Too large	▲ ▼
	H-Position	Too far to the left Too far to the right	▶ ◀
	V-Position	Too low Too high	▲ ▼
	Return to Menu	Return to Main Menu.	
Shape	Pin-Cushion	To correct distortion	▶ ◀
	Trapezoid	To correct distortion	▲ ▼
	Parallelogram	To correct distortion	▶ ◀
	Pin-Balance	To correct distortion	▲ ▼
	Tilt	To correct tilt	▶ ◀
	Return to Menu	Return to Main Menu.	

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Main Menu	Sub-Menu		Problem / Option	Button to Press
Picture Quality	H-Convergence		To correct misconvergence for vertical lines	◀ ▶
	V-Convergence		To correct misconvergence for horizontal lines	▲ ▼
	H-Moire		To correct vertical wavy lines	◀ ▶
	NOTE Moiré is the result of interference between the phosphor layout and the video signal. By changing the horizontal and vertical size, the moiré can be reduced. You may find the moiré more noticeable depending on the Desktop Pattern you select. In this case, change the desktop pattern. If moiré is still noticeable, use this function to reduce the effect. The picture may shake if extreme moiré correction is performed.			
	OPQ **Direct**	Text1	Word processor, spreadsheet, text and a like	
		Picture	Still picture	
		Movie	Moving picture (DVD / TV)	
		Text2	Word processor, spreadsheet, text and a like	
	NOTE ■ With Text2 mode, the outline of character is emphasized more than Text1 mode. In case that the characters get blurred with Text1 mode, select Text2 mode. ■ See page 9 for Direct adjustment.			
	Gamma Correction		Midtone color is too dark Midtone color is too bright	◀ ▶
	Degauss **NOTE** Degauss should not be repeated continuously. Wait at least 30 minutes between degaussing operations. While degaussing, the picture shakes and a low sound occurs but this does not indicate a problem, it is normal.		Every time the monitor is switched on, the monitor is automatically degaussed. But occasionally the colors change when moving or swiveling the monitor. In this case, first select Degauss. If the problem persists, perform the Landing adjustments.	
	Return to Menu		Return to Main Menu.	

ENGLISH

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Main Menu	Sub-Menu		Problem / Option	Button to Press
Landing	Top-Left		To correct discoloration	▶ ◀
	Top-Right		To correct discoloration	▲ ▼
	Bottom-Left		To correct discoloration	▶ ◀
	Bottom-Right		To correct discoloration	▲ ▼
	Return to Menu		Return to Main Menu.	
Function	OSD H-Position		Too far to the left Too far to the right	▶ ◀
	OSD V-Position		Too low Too high	▲ ▼
	OSD Off Timer		3 5 15 30 45 sec You can set the OSD display time to any one of the above 5 settings.	
	Language	English	English	
		Deutsch	German	
		Français	French	
		Nederlands	Dutch	
		Svenska	Swedish	
		Japanese	Japanese	
	Lockout	On	All adjustment items except this function are locked out.	
		Off	Lockout is canceled.	

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Main Menu	Sub-Menu		Option
FUNC Function	Save Recall	Auto	Any changes are automatically saved in the memory when the On Screen Display disappears.
		NOTE	Turning off the power should be avoided while using the Menu.
		Reset	Factory-preset data is restored.
		NOTE	Performing this operation resets any adjustment data made by the user to the factory-preset frequencies. The following settings made by the user for signals other than the factory-preset timings remain unchanged. H-Size V-Size Pin-Cushion H-Position V-Position Trapezoid
	Return to Menu		Return to Main Menu.
Help	Help	On	Every time you select the sub-menu icon, the online balloon help appears to indicate the menu contents or adjustment procedure.
		Off	The online balloon help is off.
	Information		The model name, the serial number and the current horizontal scan frequency and vertical refresh rate is displayed.
	Return to Menu		Return to Main Menu.

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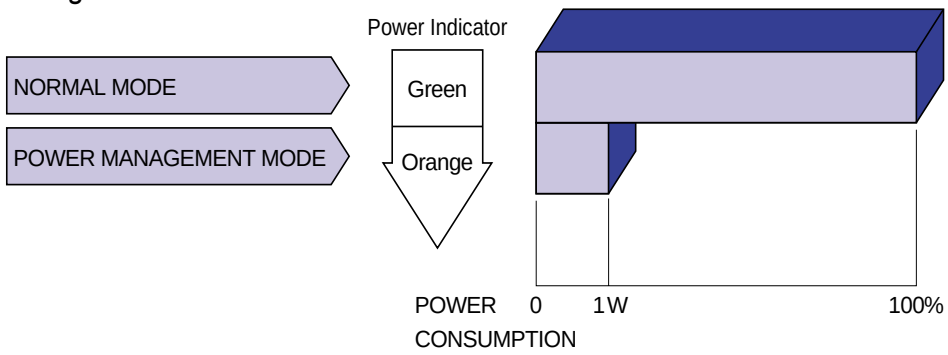
POWER MANAGEMENT FEATURE

The power management feature of this product complies with every power saving requirement of ENERGY STAR® and VESA DPMS. When activated, it automatically reduces unnecessary power consumption of the monitor when your computer is not in use.

To use the feature, the monitor needs to be connected to a VESA DPMS compliant computer. There is a power management step the monitor takes as described below. The power management function, including any timer settings is configured by the operating system. Check your operating system manual for information on how this can be configured.

■ Power Management Mode

When the H-sync signal / V-sync signal / H and V sync signals from the computer are off, the monitor enters into Power Management Mode which reduces the power consumption to less than 1W. The screen becomes dark, and the power indicator turns to orange. From Power Management Mode, the image reappears in 10 seconds when either the keyboard or the mouse are touched again.



NOTE

- Even when using the power management mode, the monitor consumes electricity. Turn off the Power Switch whenever the monitor is not used, during the night and weekends, to avoid unnecessary power consumption.
- It is possible that the video signal from the computer may be on while the H or V sync signal is missing. In this instance, the POWER MANAGEMENT feature may not work properly.
- If two separate computers are connected to the monitor, one to the VIDEO IN 1 input connector and the other to the VIDEO IN 2 input connector, the POWER MANAGEMENT feature will work only if both computers meet the conditions described above.

SELF-DIAGNOSIS FUNCTION

The monitor has a self-diagnosis function. The monitor diagnoses itself automatically when the picture does not appear and the power indicator is green or orange because of the failure of computer or monitor.

■ Procedure

① Disconnect the signal cable of the computer or turn OFF the computer.

② Turn ON the monitor.

■ Diagnosis

① A color bar picture is displayed:
The monitor is working normally. Check the computer.

② A color bar picture is not displayed:
The monitor may be damaged. Contact your dealer or iiyama service center.

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TROUBLE SHOOTING

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
2. Consult the following charts if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

Problem	Check
① The picture does not appear. (Power indicator does not light up.)	☐ The Power Cable is firmly seated in the socket. ☐ The Power Switch is turned ON. ☐ The AC socket is live. Please check with another piece of equipment.
(Power indicator is green.)	See page 15 for SELF-DIAGNOSIS FUNCTION. ☐ If the blank screen saver is in active mode, touch the keyboard or the mouse. ☐ Increase the Contrast and/or Brightness. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
(Power indicator is orange.)	See page 15 for SELF-DIAGNOSIS FUNCTION. ☐ If the monitor is in power management mode, touch the keyboard or the mouse. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
② The screen is not synchronized.	☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor. ☐ The video output level of the computer is within the specification of the monitor.
③ The screen position is not in the center.	☐ The signal timing of the computer is within the specification of the monitor.
④ The screen is too bright or too dark.	☐ The video output level of the computer is within the specification of the monitor. The screen may be too bright due to the video output level difference of the computer. In this case, adjust the Contrast.
⑤ The screen is shaking.	☐ Check if there are any sources of strong magnetic fields such as TV, speakers, etc. nearby. If yes, remove them from the area of the monitor or change the position/direction of the monitor to avoid magnetic field interference. ☐ The power voltage is within the specification of the monitor. ☐ The signal timing of the computer is within the specification of the monitor. ☐ Moiré correction is working properly.

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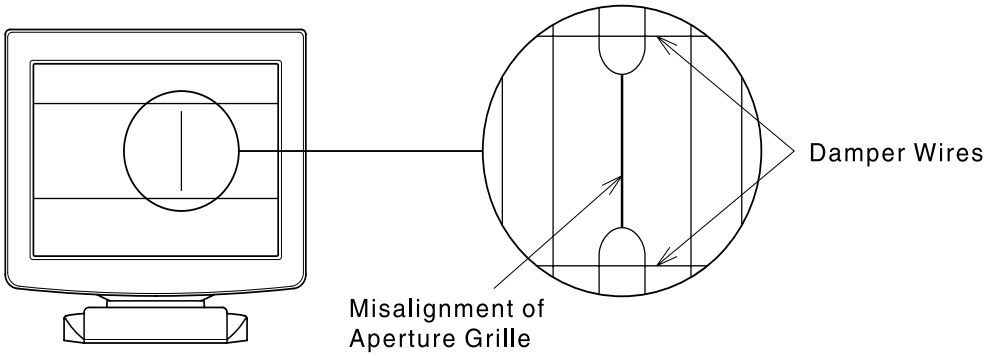
Problem	Check
⑥ No sound.	☐ The audio equipment (computer etc.) is ON. ☐ The Audio Cable is properly connected. ☐ If the headphone is connected, disconnect it. ☐ The Volume is turned up. ☐ The audio output level of the audio equipment is within the specification of the monitor.
⑦ The sound is too loud or too quiet.	☐ The audio output level of the audio equipment is within the specification of the monitor.
⑧ A strange noise is heard.	☐ The Audio Cable is properly connected.

Normal phenomenon on 'Diamondtron U3-CRT' monitors



Misalignment of Aperture Grille

Due to the nature of the Diamondtron U3-CRT, in rare cases, a misalignment of the aperture grille may happen by the shock or vibration caused during transportation. If a black vertical line appears on the screen, apply a light shock to the side of the monitor with your hand. If the problem persists, follow the procedure below.

① Display a full white picture and inspect the problem area.
② Display a high-white picture that covers the problem area to shoot a strong electron beam. Leave it for a while, until the problem disappears.

Damper Wires

The two faint horizontal lines that may be visible on the screen are actually the shadows of steel wires called Damper Wires. All Diamondtron U3-CRT based monitors have these wires for structural reasons.

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APPENDIX

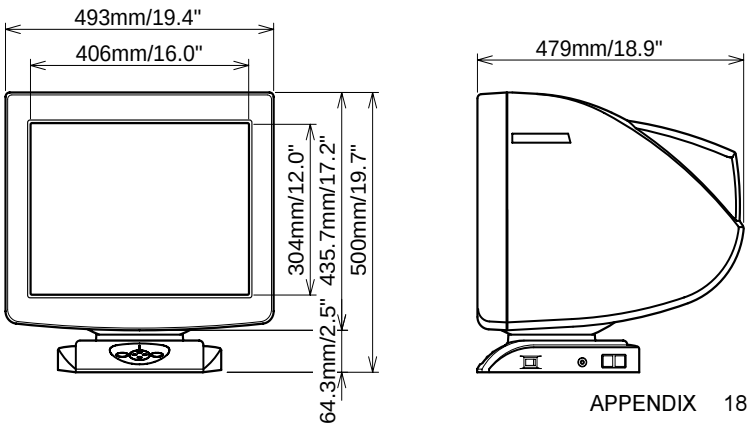
SPECIFICATIONS

CRT	22" (20.0" / 51cm viewable), Aperture Grille pitch: 0.24mm, Diamondtron U3-CRT, 90 degree deflection, Short persistence phosphor, Anti-reflection & Anti-static coating
Sync Frequency	Horizontal: 30.0-142.0kHz, Vertical: 50-200Hz
Video Bandwidth	390MHz dot clock
Recommended Resolution	1600 × 1200 at 100Hz
Input Connectors	D-Sub mini 15pin × 2
Plug & Play	VESA DDC2B™
Input Sync Signal	Separate sync: TTL, Positive or Negative Composite sync*1: TTL, Positive or Negative Sync on green*1: 0.3Vp-p, Negative
Input Video Signal	Analog: 0.7Vp-p (Standard), 1.0Vp-p, 75Ω, Positive
Number of Signal Storage	Factory-presets: 9, User defined settings: 9 maximum
Input Audio Connector	ø 3.5mm mini jack (Stereo)
Input Audio Signal	0.7Vrms maximum
Speakers	1W × 2 (Stereo speakers)
Headphone Connector	ø 3.5mm mini jack (Stereo)
Standard Screen Size	395mm W × 295mm H / 15.6" W × 11.6" H
USB Standard Connectors	Rev. 1.1 compliance Self-powered hub Upstream: Series B, Downstream: Series A
Number of USB Ports	1 Upstream (For computer), 4 Downstream (For peripherals)
Power Source Power Consumption	100-230V～, 50/60Hz, 1.64-0.76A (～: Alternating Current Symbol) 160W (Maximum in normal use) 135W (Windows: 1600 × 1200 at 100Hz)*2 Power management mode: 1W maximum*2
Dimensions, Net Weight	493 × 500 × 479mm / 19.4 × 19.7 × 18.9" (W × H × D), 29.5kg / 65.0lbs
Tilt-Swivel Angle	Right / Left: 45 degrees each, Up: 11 degrees, Forward: 5 degrees
Environmental Considerations	Operating: Temperature 0 to 35°C / 32 to 95°F Humidity 10 to 80% (No condensation) Altitude limitations Not more than 3,000m Storage/Transport: Temperature -20 to 60°C / -4 to 140°F Humidity 5 to 90% (No condensation) Altitude limitations Not more than 12,000m
Approvals	TCO '03, CE, TÜV-GS (EN60950) / MPR Ⅲ (prEN50279) / ISO 9241-3/ ISO 9241-7/ISO 9241-8, PTB, FCC-B, UL/C-UL (UL60950), DHHS, Department of Health (Canada)

NOTE

*1 The picture may not be displayed normally depending on the type of signal of a computer system.

*2 Condition: USB peripherals or audio equipment are not connected.



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PRESET MODES

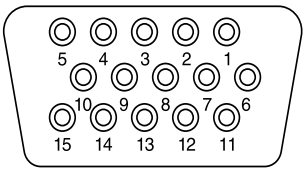
The following chart indicates the Factory Preset Modes.

	VESA Timing Name	Horizontal Frequency	Vertical Frequency	Sync Polarity	
				H	V
1	640×400 @70Hz	31.47kHz	70.0Hz	Negative	Positive
2	640×480 @60Hz	31.47kHz	59.9Hz	Negative	Negative
3	640×480 @85Hz	43.27kHz	85.0Hz	Negative	Negative
4	800×600 @85Hz	53.67kHz	85.1Hz	Positive	Positive
5	1024×768 @85Hz	68.68kHz	85.0Hz	Positive	Positive
6	1280×1024 @85Hz	91.15kHz	85.0Hz	Positive	Positive
7	1600×1200 @85Hz	106.25kHz	85.0Hz	Positive	Positive
8	1920×1440 @85Hz	128.52kHz	85.0Hz	Positive	Positive
9	2048×1536 @85Hz	137.02kHz	85.0Hz	Positive	Positive

NOTE Additional adjustments may be required to the factory-presets, because the signal timings vary depending on the type of graphics board you use.

CONNECTOR PIN ASSIGNMENT

D-Sub mini 15pin Connector



D-SUB

Pin	Input Signal	Pin	Input Signal
1	Red video	9	
2	Green video / Sync on green	10	Ground
3	Blue video	11	Ground
4		12	Data line (SDA) *
5		13	H-Sync / HV-Sync
6	Red video ground	14	V-Sync
7	Green video ground	15	Clock line (SCL) *
8	Blue video ground		

* Compliant to VESA DDC.

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